

1. AMENDMENT/MODIFICATION NO <b>0003</b>		2. EFFECTIVE DATE <b>NOV. 19, 2002</b>	
3. ISSUED BY  DEPARTMENT OF THE ARMY, BALTIMORE DISTRICT CORPS OF ENGINEERS P.O. BOX 1715 BALTIMORE, MARYLAND 21203-1715			
4. NAME AND ADDRESS OF CONTRACTOR (Name, street, county, State and ZIP Code)		4A. AMENDMENT OF SOLICITATION NO.  <b>DACA31-03-R-0005</b>	
		4B. DATED (SEE ITEM 5)  <b>OCT. 25, 2002</b>	
5. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <b>is extended</b> <b>SEE BELOW</b> Others must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 4 and 8, and returning <u>  1  </u> copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of the amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.			
6. ACCOUNTING AND APPROPRIATION DATA (If required)  <b>WHOLE HOUSE REVITALIZATION</b> <b>NEW CUMBERLAND, PA.</b>			
7. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)          <b>SEE THE FOLLOWING PAGES</b>			
8. NAME AND TITLE OF SIGNER (Type or print)		9. CONTRACTOR/OFFEROR   (Signature of person authorized to sign)	10. DATE SIGNED

Except as provided herein, all terms and conditions of the document referenced in Item 4A, as heretofore changed, remains unchanged and in full force.

SOLICITATION:

- 1) STANDARD FORM 1442, BLOCK 11: Change "440 calendar days" to "540 calendar days".
- 2) STANDARD FORM 1442, BLOCK 13A: The Bid Opening date and time has been extended to 4:00 P.M. Local Time, December 03, 2002.
- 3) SECTION 00010 - SUPPLIES OR SERVICES AND PRICES: Delete the price schedule as originally issued and substitute the attached revised Price Schedule dated Nov 14, 2002.
- 4) SECTION 00100 - BIDDING SCHEDULE/INSTRUCTIONS TO BIDDERS: Change the site visit information to read as follows:

"A SITE VISIT IS SCHEDULED FOR NOVEMBER 26, 2002 AT 9:00 A.M. PLEASE CONTACT ANTHONY MARCELL AT THE HARRISBURG AREA OFFICE BEFORE 3:00P.M. ON NOVEMBER 22, 2002".

"(NOTE) THE SECURITY INFORMATION SHEET ATTACHED TO AMENDMENT NO. 0002 MUST BE FILLED OUT AND FAXED TO TONY MARCELL PRIOR TO NOVEMBER 22, 2002 FOR THOSE INDIVIDUALS PLANNING TO ATTEND THE SITE VISIT."

- 5) SECTION 00100 - CLAUSE 52.216-1 - TYPE OF CONTRACT (APR 1984): Immediately following this clause insert the following:

"FAR 52.217-5, EVALUATION OF OPTIONS

EVALUATION OF OPTIONS: Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interest, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirements. Evaluation of options will not obligate the Government to exercise the option(s). (FAR 52.217-5 JUL 1990)"

- 6) 52-211.10 - COMMENCEMENT, PROSECUTION AND COMPLETION OF WORK: Delete this clause as originally issued and substitute therefor the following:

The Contractor shall be required to (a) commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than (see below).  
\*The time stated for completion shall include the final cleanup of the premises.

Construction Phasing

<u>BID ITEM #</u>	<u>BLDG. NUMBERS</u>	<u>DURATION</u>
0001	164 through 171 (8 units)	300 calendar days
0002	31 through 37 (14 units)	180 calendar days
0003	139 and 144 (16 units)	300 calendar days
0004	41 (1 unit)	120 calendar days
0005	40 (1 unit)	120 calendar days

NOTES:

1. For bidding purposes for Bid Items 0001 and 0002:

(a) Assume construction phasing in the following sequence:

Bid Item 0001 and Bid Item 0002 will be constructed sequentially, a minimum of 60 calendar days will be required to make the next set of units (Bldgs. 31-37) available upon completion of the previous units (Bldgs. 164-171).

Bid Item Nos. 0001 and 0003 will be constructed concurrently.

2. For bidding purposes for Bid Items 0004 and 0005:

Bid Items 0004 and 0005 will be constructed sequentially, a minimum of 30 calendar days will be required to make the next units available upon completion of the previous units.

3. Reference is made to Section 00800, Commencement, Prosecution and Completion of Work. The Contractor will be given an Administrative Notice to Proceed upon evidence of legally sufficient bonding. The Administrative Notice to Proceed is for the initiation of any administrative matters necessary to complete the contract including schedules, submittals and material orders for subject contract. A Construction Notice to Proceed will be issued on or about January 15, 2003. Under the terms of the contract you will be required to commence and complete the work as designated in Section 00800, Clause entitled ", Commencement, Prosecution and Completion of Work", of the contract. Performance period will commence with issuance of Construction Notice to Proceed.

(End of clause)

7) 52.211-12 LIQUIDATED DAMAGES--CONSTRUCTION (SEP 2000) Delete this clause as issued in Amendment No. 0002 issued 30 October 2002 and substitute the following:

"(a) If the Contractor fails to complete the work within the 540 calendar day period as specified in the contract, the Contractor shall pay liquidated damages to the Government in the amount of \$545.00 per day.

The following additional costs are to be assessed for rent cost per day per unit:

- (1) "J" Avenue (Bid Item 0001), Bldgs. 164 thru 171, (8 units), LD's are \$29.30 per unit per day, which amounts to \$234.40.
- (2) 11th Street (Bid Item 0002), Bldgs. 31 thru 37, (14 units), LD's are \$33.30 per unit per day, which amounts to \$466.20.
- (3) Garden Avenue (Bid item 0003) Bldgs. 139 and 144, (16 units), LD's are \$26.33 per unit per day, which amounts to \$421.28
- (4) "H" Avenue (Bid Item 0004) Bldg. 40, 1 unit, LD is \$35.40 per unit per day.
- (5) "H" Avenue (Bid Item 0005) Bldg. 41, 1 unit, LD is \$35.40 per unit per day.

The total liquidated damages and rent costs per day is \$1,737.68.

(b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Termination clause.

SPECIFICATIONS:

8) PAGE 01050-2, PARA. 1.4 - PHASING: Insert the following as shown:

"Building numbers 164 through 171 are vacant and ready for renovation at the time of contract award. Building numbers 31 through 37 will be occupied at the time of contract award. As buildings 164 through 171 are completed, occupants from units 31 through 37 will begin moving in, vacating their quarters to allow for renovation. Tenants require sixty (60) days to move from occupied quarters to renovated facilities.

0001	164 through 171 (8 units)	300 calendar days
0002	31 through 37 (14 units)	180 calendar days
0003	139 and 144 (16 units)	300 calendar days
0004	41 (1 unit)	120 calendar days
0005	40 (1 unit)	120 calendar days

9) SECTION 01050 - JOB CONDITIONS: Insert the attached NEW CUMBERLAND ASBESTOS SURVEY REPORT at the end of this section.

DRAWINGS:

10) SHEET ID1, INDEX OF DRAWINGS: Delete this plate as originally issued and substitute therefore the attached same like-numbered plate dated 11-08-02.

11) SHEET C1, OVERALL SITE PLAN: Delete this plate as originally issued and substitute therefore the attached same like-numbered plate dated 11-08-02.

12) SHEET C3, SOIL EROSION AND SEDIMENT CONTROL PLAN: Delete this plate as originally issued and substitute therefore the attached same like-numbered plate dated 11-08-02.

13) THE FOLLOWING PLATES ARE NEW AND HAVE BEEN ADDED TO THIS PROJECT, INSERT INTO PROPER ORDER. THESE ARE DATED 11-08-02

"A12 PARTIAL 1ST & 2ND FLOOR REMOVAL PLANS-BUILDINGS 139 & 144  
A13 PARTIAL 1ST & 2ND FLOOR REMOVAL PLANS-BUILDINGS 139 & 144  
A14 PARTIAL 1ST & 2ND FLOOR PLANS-BUILDINGS 139 & 144  
A15 PARTIAL 1ST & 2ND FLOOR PLANS-BUILDINGS 139 & 144  
A16 ROOF PLAN AND DETAILS-BUILDINGS 139 & 144  
A17 SECTIONS AND DETAILS-BUILDINGS 139 & 144  
A18 ELEVATIONS-BUILDINGS 139 & 144  
A19 ELEVATIONS-BUILDINGS 139 & 144  
A20 ROOM FINISH, DOOR, & COLOR SCHEDULES-BUILDINGS 139 & 144  
A21 MILLWORK ELEVATIONS & DETAILS-BUILDINGS 139 & 144  
A22 BUILDING SECTIONS & DETAILS-BUILDINGS 139 & 144  
A44 BASEMENT, FIRST, & SECOND FLOOR REMOVAL PLANS-BUILDING 40  
A45 BASEMENT, FIRST, & SECOND FLOOR PLANS-BUILDING 40  
A46 ROOM FINISH, DOOR, & COLOR SCHEDULES-BUILDING 40  
A47 BASEMENT, FIRST, & SECOND FLOOR REMOVAL PLANS-BUILDING 41  
A48 BASEMENT, FIRST, & SECOND FLOOR PLANS-BUILDING 41  
A49 ROOM FINISH, DOOR, & COLOR SCHEDULES-BUILDING 41  
A50 ELEVATIONS & DETAILS-BUILDINGS 40 & 41  
A51 BUILDING CROSS SECTION-BUILDINGS 40 & 41  
C2 SOIL EROSION AND SEDIMENT CONTROL PLAN  
C10 SITE PLAN BUILDING 139  
C15 SITE PLAN BUILDING 144  
C21 SITE PLAN, BUILDINGS 40 & 41  
E4 PARTIAL ELECTRICAL SITE PLAN  
E9 REMOVAL PLANS-BUILDINGS 139 & 144-ELECTRICAL  
E10 PARTIAL 1ST & 2ND FLOOR PLANS-BUILDINGS 139 & 144-ELECTRICAL  
E11 PARTIAL 1ST & 2ND FLOOR PLANS-BUILDINGS 139 & 144-ELECTRICAL  
E21 REMOVAL FLOOR PLANS-BUILDING 40-ELECTRICAL  
E22 FLOOR PLANS-BUILDING 40-ELECTRICAL  
E23 REMOVAL FLOOR PLANS-BUILDING 41-ELECTRICAL  
E24 FLOOR PLANS-BUILDING 41-ELECTRICAL  
M6 PARTIAL 1ST & 2ND FLOOR REMOVAL PLANS-BUILDINGS 139 & 144-HVAC  
M7 PARTIAL 1ST & 2ND FLOOR REMOVAL PLANS-BUILDINGS 139 & 144-HVAC  
M8 PARTIAL 1ST & 2ND FLOOR PLANS-BUILDINGS 139 & 144-HVAC  
M9 PARTIAL 1ST & 2ND FLOOR PLANS-BUILDINGS 139 & 144-HVAC  
M16 BASEMENT, 1ST & 2ND FLOOR REMOVAL PLANS-BUILDING 40-HVAC

M17 BASEMENT, 1ST & 2ND FLOOR PLANS-BUILDING 40-HVAC  
M18 BASEMENT, 1ST & 2ND FLOOR REMOVAL PLANS-BUILDING 41-HVAC  
M19 BASEMENT, 1ST & 2ND FLOOR PLANS-BUILDING 41-HVAC  
P7 PARTIAL 1ST & 2ND FLOOR PLANS-BUILDINGS 139 & 144-REMOVALS  
P8 PARTIAL 1ST & 2ND FLOOR PLANS-BUILDINGS 139 & 144-REMOVALS  
P9 PARTIAL 1ST & 2ND FLOOR PLANS-BUILDINGS 139 & 144-SAN. PIPING  
P10 PARTIAL 1ST & 2ND FLOOR PLANS-BUILDINGS 139 & 144-SAN. PIPING  
P11 PART. 1ST & 2ND FL. PLANS-BLDGS. 139 & 144-WATER AND GAS PIPING  
P12 PART. 1ST & 2ND FL. PLANS-BLDGS. 139 & 144-WATER AND GAS PIPING  
P33 BASEMENT, FIRST & SECOND FLOOR PLANS-BUILDING 40-REMOVALS  
P34 BASEMENT, FIRST & SECOND FLOOR PLANS-BUILDING 40-SANITARY PIPING  
P35 BASEMENT, FIRST & SECOND FLOOR PLANS-BUILDING 40-WATER AND GAS  
PIPING  
P36 BASEMENT, FIRST & SECOND FLOOR PLANS-BUILDING 41-REMOVALS  
P37 BASEMENT, FIRST & SECOND FLOOR PLANS-BUILDING 41-SANITARY PIPING  
P38 BASEMENT, FIRST & SECOND FLOOR PLANS-BUILDING 41-WATER AND GAS  
PIPING"

ATTACHMENTS:

- 1) PRICE SCHEDULE DATED NOVEMBER 14, 2002
- 2) REVISED DRAWINGS DATED 11-08-02: "ID1; C1 and C3"
- 3) NEW DRAWINGS DATED 11-08-02": "A12; A13; A14; A15; A16; A17; A18;  
A19; A20; A21; A22; A44; A45; A46; A47; A48; A49; A50; A51; C2; C10;  
C15; C21; E4; E9; E10; E11; E21; E22; E23; E24; M6; M7; M8; M9; M16;  
M17; M18; M19; P7; P8; P9; P10; P11; P12; P33; P34; P35; P36; P37; and  
P38".

SECTION 00010 - SUPPLIES OR SERVICES AND PRICES

ATTACHMENT TO ACCOMPANY AMENDMENT NO. 0003 TO IFB DACA31-03-R-0005  
REVISED NOV. 14, 2002

PRICE SCHEDULE

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Item No.	Description	Amount
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Base Bid Items

0001	All costs in connection with Bldgs. 164 through 171, "J" Avenue, complete as shown on drawings and specified.	\$_____
0002	All costs in connection with Bldgs. 31 through 37, "11th" Street, complete as shown on drawings and specified.	\$_____
0003	All costs in connection with Bldg. 139 and 144, Garden Avenue, complete as shown on drawings and specified, with the exception of work covered under Option Item No. 0006 below.	\$_____

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TOTAL BASE BID AMOUNT \$\_\_\_\_\_

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Optional Items

0004	All costs in connection with Bldg. 41, complete as shown on drawings and specified.	\$_____
0005	All costs in connection with Bldg. 40, complete as shown on drawings and specified.	\$_____
0006	All costs in connection with providing underground electric service to Buildings 139 and 144.	\$_____

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TOTAL BASE AND OPTIONAL BID AMOUNTS \$\_\_\_\_\_

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#### NOTES TO OFFERORS

Offerors must quote on all items including Optional Items. Failure to quote on all items may be cause for rejection of the bid.

Optional Items may be exercised at any time within 270 calendar days after contract award. The Contracting Officer may exercise the Optional Items by written notice to the Contractor, postmarked within the period specified above. The Government may exercise any, all or none of the listed Optional Items in any order.

EVALUATION OF OPTIONS: Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interest, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirements. Evaluation of options will not obligate the Government to exercise the option(s). (FAR 52.217-5 JUL 1990)

SUMMARIZATION OF AIRBORNE ASBESTOS SAMPLING RESULTS				
CORPS DISTRICT		WORK LOCATION (Installation, Building, Room, City, State)		CONTRACT NO.
AMOUNT OF ASBESTOS _____ SQ. FT. _____ LINEAR FT. WORK AREA DIMENSIONS _____ L x _____ W x _____ H				
ASBESTOS INVOLVED	<input type="checkbox"/> FRIABLE <input type="checkbox"/> NON-FRIABLE			
TYPE OF MATERIAL	<input type="checkbox"/> CEILING TILE <input type="checkbox"/> FLOOR TILE <input type="checkbox"/> SPRAY-ON <input type="checkbox"/> ROOFING <input type="checkbox"/> WALL PANELS <input type="checkbox"/> CLOTH <input type="checkbox"/> PIPE LAGGING <input type="checkbox"/> PLASTER MUD <input type="checkbox"/> PAPER SHEET <input type="checkbox"/> GASKET <input type="checkbox"/> ROPE <input type="checkbox"/> OTHER			
TYPE OF ACTION	<input type="checkbox"/> REMOVAL <input type="checkbox"/> ENCLOSURE <input type="checkbox"/> ENCAPSULATION <input type="checkbox"/> OTHER			
WET METHODS	<input type="checkbox"/> ON WORK <input type="checkbox"/> ON WASTE <input type="checkbox"/> AMENDED WATER <input type="checkbox"/> NOT USED			
WASTE HANDLING	<input type="checkbox"/> SHIFT END <input type="checkbox"/> 2x/SHIFT <input type="checkbox"/> CONTINUOUS <input type="checkbox"/> ACCEPTABLE			
BARRIER FILMS	<input type="checkbox"/> FLOOR <input type="checkbox"/> WALL <input type="checkbox"/> CEILING <input type="checkbox"/> DOUBLE <input type="checkbox"/> AIR VENTS <input type="checkbox"/> OTHER <input type="checkbox"/> NONE			
WORK ZONE PRESSURE DIFFERENTIAL	<input type="checkbox"/> NEGATIVE <input type="checkbox"/> POSITIVE <input type="checkbox"/> AMBIENT <input type="checkbox"/> NONE			
CAUTION SIGNS	<input type="checkbox"/> PERIMETER <input type="checkbox"/> DUMPSTER <input type="checkbox"/> WASTE BAGS			
SITE ISOLATION	<input type="checkbox"/> PERIMETER <input type="checkbox"/> AIRLOCK <input type="checkbox"/> DUCTS <input type="checkbox"/> OTHER			
WORK PRACTICES	<input type="checkbox"/> HEPA VACUUM <input type="checkbox"/> MICROTRAP <input type="checkbox"/> CHANGE ROOM <input type="checkbox"/> SHOWERS			
RESPIRATORS	<input type="checkbox"/> SUPPLY AIR <input type="checkbox"/> PAPR <input type="checkbox"/> SINGLE USE <input type="checkbox"/> REUSABLE <input type="checkbox"/> NONE AIR PURIFYING (Neg. Press.)			
PROTECTIVE CLOTHING	<input type="checkbox"/> DISPOSABLE <input type="checkbox"/> REUSABLE <input type="checkbox"/> SHOE COVERS <input type="checkbox"/> GLOVES			

CEILING VALUES		TWA-VALUES				
FIBERS/CC	OPERATION	FIBERS/CC	SAMPLE HRS.	A/P*	B/D/P/O**	OPERATION

\*\* B/D/P/O (B-Baseline; D-Daily; P-Post-Clean; O-Other)

ABIH CERTIFICATION NO.



November 8, 1996

Mr. William Jones  
Burkavage Design Associates  
Abington Executive Park  
Clarks Summit, PA 18411

Re: Defense Distribution Region East  
Whole House Revitalization  
Asbestos and Lead Survey  
Galson Project Number 964642

Dear Mr. Jones:

This letter and attachments provides our final report for the above referenced project.

## Background and Purpose

Burkavage Design Associates retained Galson Consulting to provide asbestos and lead-based paint (LBP) consulting services for Phases 1, 2, and 3 of the Whole House Revitalization project at the Defense Distribution Region East (DDRE) Depot in New Cumberland, Pennsylvania. The scope of the revitalization project includes the removal of walls, ceilings, and floors in 141 housing/apartment units. Asbestos and LBP that will be impacted must be removed prior to commencement of renovation activities.

Galson's first task was to review and evaluate existing asbestos and LBP survey data provided by DDRE. The results of this review and evaluation are documented in an October 18, 1996 letter to Burkavage. A copy of this correspondence is included in Appendix A.

Based on this review and evaluation, it was concluded that additional asbestos and LBP testing was necessary to properly identify and locate materials that the renovation work would impact. This additional survey work was conducted from October 21 through October 25, 1996.

## Facility Description

For the purpose of the asbestos and LBP survey, the 141 housing/apartment units were divided into 8 reporting groups based on construction/renovation history. These groups are defined on the following page. The survey effort included an inspection of at least one representative unit within each reporting group.

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GALSON CONSULTING • GALSON/LOZIER ENGINEERS • GALSON LABORATORIES

6601 Kirkville Road • East Syracuse, New York 13057 • Phone [315] 432-0506 • FAX [315] 437-0509

<u>Reporting Group</u>	<u>Construction Date</u>	<u>Facility Description</u>
<del>Buildings 133-135</del>	<del>1950</del>	<del>24 - 2 and 3 Bedroom Apartment Units</del>
Buildings 136-144	1956	69 - 2 and 3 Bedroom Apartment Units
<del>Building 30</del>	<del>1939</del>	<del>1 Single Family Housing Unit General Officer Quarters</del>
Buildings 31-37	1938	14 Apartment Units
Buildings 40 and 41	1938	2 Single Family Housing Units
Buildings 164-171	1959	8 Single Family Housing Units
<del>Buildings 187-197</del>	<del>1960</del>	<del>22 Apartment Units</del>
<del>Building 76</del>	<del>1918</del>	<del>1 Single Family Housing Unit</del>

At the time of the survey, buildings 40 and 41 were being converted from two family dwellings to single family homes. The conversion will be completed prior to the start of this renovation project.

## LBP Survey Discussion

### *LBP Survey Summary*

Previous LBP data was provided in summary form by DDRE for Buildings 133 through 144. There was no LBP data provided for the other buildings. The information provided indicated that all wood trim and doors in Buildings 133 through 144 were coated with LBP. However, there were no specific sample results provided and there was no indication that any walls and ceilings had been tested.

To better define which building surfaces are coated with LBP, Galson conducted a cursory survey in at least one housing/apartment unit in every reporting group. LBP testing was conducted using a SCITEC Corporation MAP3 X-ray fluorescence (XRF) spectrum analyzer. The testing included evaluating painted surfaces in each room for the presence of LBP. As defined in the July 1995 U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, the federal lead standard for paint is 1.0 milligrams per square centimeter (mg/cm<sup>2</sup>). Any results that were above this level or tested inconclusive (between 0.4 and 1.6 in screen mode or between 0.7 and 1.3 in test mode) with the XRF were considered to be positive for lead. This survey effort did not comply with nor was it intended to comply with, the sampling population recommended by the HUD Guidelines for a comprehensive XRF survey.

### ~~LBP Survey For Buildings 133 Through 135~~

Testing in these buildings included a 2-bedroom apartment (135 D Cherry Lane) and a 3-bedroom apartment (134 G Cherry Lane). Individual sample results are summarized by building in Appendix B.

Results for samples collected from interior doors, baseboards, door frames, window frames, stair components, and other interior trims were inconsistent with 51 percent of the samples testing positive. In

such a situation, HUD recommends that if more than 15 percent of the components sampled tested positive, then all such components should be assumed positive for lead. As such, all painted doors and interior trim will be treated as being coated with LBP for this project.

There were 22 samples collected from walls and ceilings in the two apartments with no positive results exceeding the HUD action level of 1.0 mg/cm<sup>2</sup>.

The exterior facade of these buildings is a combination of vinyl siding and brick. However, metal support posts, doors, and wood trim found on the front porches all tested positive for lead.

#### *LBP Survey For Buildings 136 Through 144*

Testing in these buildings also included a 2-bedroom unit (137 C Cherry Lane) and a 3-bedroom unit (136 A Cherry Lane). Results were similar to those noted for buildings 133 through 135, with the exception that all interior doors that were sampled tested below the action level of 1.0 mg/cm<sup>2</sup>. The 22 wall and ceiling samples also tested below the action level.

Of the 26 interior trim samples collected, 50 percent tested positive. As such, all interior trim will be treated as being coated with LBP.

The exterior facade is a combination of vinyl and brick. However, metal supports for the front porch overhangs tested positive for lead.

#### ~~*LBP Survey For Building 30*~~

~~This unique single family housing unit is the General Officer Quarters and consists of a basement and two upper floors. The kitchen and adjacent bathroom were recently renovated and are not included in this project. As expected for a building of this vintage, many painted surfaces tested positive for lead, with results varying from space to space. Results are summarized below.~~

<u>Floor Level</u>	<u>Room(s)</u>	<u>Positive LBP Components</u>
<i>Basement</i>	Large Storage and Boiler Room	Concrete walls, wood doors, and trim
	Stairs and bathroom	Plaster and concrete walls, ceilings, and trim
	Recreation Room	Baseboards
<i>First Floor</i>	Dining Room	Wood trim
	Family Room	Plaster walls, doors, and trim
	Living Room	Doors and trim
	Sun Room	Doors and door frames
<i>Second Floor</i>	Stairs and Hall	Baseboards and stair stringers
	Bedrooms	Baseboards

Individual sample results are summarized in Appendix B.

#### *LBP Survey For Buildings 31 Through 37*

Building 32A was sampled for LBP in this reporting group. Of the 17 wall and ceiling samples collected, all tested below the HUD action level of 1.0 mg/cm<sup>2</sup>. Of the 18 doors, interior trim, and radiators sampled 55 percent tested above the HUD action level. As such, these items will be treated as being coated with LBP for this renovation project.

The exterior facade is mostly brick with some wood trim that was not accessible for testing. A wood divider in the rear of the unit tested negative. Individual sample results are summarized in Appendix B.

#### *LBP Survey For Buildings 40 And 41*

Building 40 was sampled in this reporting group. The unit was not occupied at the time of the inspection and was undergoing renovation work that will convert the existing duplex into a single family housing unit. Based on sample results, it appears that LBP was used extensively in this housing unit.

All painted walls and ceilings, with the exception of those in the Sun Room, exceeded the HUD action level of 1.0 mg/cm<sup>2</sup>. Doors and all interior trim also tested positive. Exterior samples also showed significant concentrations of lead, with gutters, trim, doors, and porches all testing positive.

#### *LBP Survey For Buildings 164 Through 171*

Building 164 was sampled in this reporting group. Walls, ceilings, window frames, door frames, and interior doors all tested below the HUD action level of 1.0 mg/cm<sup>2</sup>. Wood baseboards tested positive 33 percent of the time and will be treated as being coated with LBP for this project.

Samples were also collected on the back porch. Positive results were recorded for the metal roof supports and wood siding. Other exterior positive results included wood siding found beneath a side window and around the front porch. Individual sample results for this unit are included in Appendix B.

#### ~~*LBP Survey For Buildings 187 Through 197*~~

Building 191B was surveyed in this reporting group. Walls and ceilings all tested below the HUD action level. Interior doors and trim tested positive 71 percent of the time and will be treated as being coated with LBP for this project.

The exterior facade is brick and vinyl. However, the front porch is supported by 3 metal posts and an overhead beam that tested positive for LBP. A storage room door and frame, located behind the garbage bin area, also tested positive. Individual sample results for this building are included in Appendix B.

#### ~~*LBP Survey For Building 76*~~

This home was constructed in 1918 and as expected contains considerable amounts of LBP. On October 31, Burkavage was notified of a potentially hazardous situation existing in the building involving

significant deterioration of LBP. The deterioration is accessible to a young child living in the unit and as such the situation should be corrected as soon as possible to avoid a potential health problem.

In the basement, the plaster walls at the top of the stairs tested positive as did the underside of the stairs leading to the second floor. Block walls, flooring, and basement stair components tested below the HUD action level.

The first floor kitchen, hallway, and bathroom have been renovated in this unit. Walls, ceilings, doors, and trim in these areas all tested below the HUD action level. Components sampled in other first floor rooms included walls, ceilings, doors, and trim. All these components tested positive for LBP. Painted wood siding and flooring on the front porch also tested positive.

Some renovation work has been done in the second floor bathroom and bedroom closets. The new sheetrock walls and doors associated with these renovations tested negative. All original painted surfaces on the second floor tested positive for lead.

The exterior facade is an asbestos containing transite siding that also tested positive for lead. The exterior wood trim also tested above the HUD LBP action level.

A single bay garage is located behind the home. Wood siding and trim on the garage tested positive for LBP.

## Asbestos-Containing Materials (ACM) Survey Discussion

### *ACM Survey Summary*

Asbestos survey data was provided by DDRE for the Phase 1, 2, and 3 buildings that are included in the proposed renovation project. The ACM survey information; however, was limited since no results were available for surfacing materials (walls and ceilings).

To more conclusively determine which building materials contain asbestos, Galson performed an asbestos survey of one of each representative building type within each reporting group. The survey included bulk sampling and laboratory analysis of any suspect ACM that was not included in the previous survey. Triplicate samples were collected from each homogeneous material. Bulk sampling was performed by the Galson Laboratory using Polarized Light Microscopy (PLM). ACM is defined by the USEPA and OSHA as any material containing more than one percent asbestos. Galson's bulk asbestos sampling results are summarized by individual buildings in Appendix C.

DDRE also provided Galson with a list of ACM that had been removed from specific housing units as of June 1996; however, the list did not provide sufficient detail pertaining to the quantities and locations of ACM removed.

Outlined below are summaries indicating the materials previously listed as ACM and those confirmed by our survey to be ACM. It is our understanding that the scope of the proposed renovations will disturb all these materials and complete abatement will be necessary prior to demolition/construction.

~~ACM Survey For Buildings 133 - 135~~

Galson's survey for these buildings was conducted in a 2-bedroom apartment (135 Cherry Lane) and a 3-bedroom apartment (134 G Cherry Lane).

The previous DDRE survey listed the following materials as ACM:

- Transite panel (mechanical room)

Our survey confirmed the following additional materials to be ACM:

- Linoleum floor sheeting
- Flue cement
- Vinyl asbestos floor tile\*
- Wall sheetrock
- Ceiling sheetrock

\* The previous survey report did not identify any vinyl asbestos floor tile (VAT) in these areas; however, the list of materials removed indicated that floor tiles were removed from several of these units in 1994. Our survey revealed that VAT had not been removed and it is present beneath two layers of vinyl floor sheeting (linoleum). The 9" x 9" VAT was not sampled since this type of tile typically contains asbestos. This condition may exist in other buildings of this type.

It is prudent to consider the ceiling sheetrock in this unit as ACM since it appeared homogeneous to the wall sheetrock and one ceiling sample was found to contain a trace of asbestos.

Asbestos abatement of the wall and ceiling materials will entail complete isolation of the unit and demolition of all wall and ceiling materials, lath, etc.

Roofs on these buildings were of EPDM construction and considered non-suspect for asbestos. Galson did not investigate the presence of original roof materials beneath the EPDM. If renovation work will disturb the roofing, this should be investigated since older roofing materials often contain asbestos.

*ACM Survey For Buildings 136 - 144*

Galson's survey for these buildings was also conducted in a 2-bedroom unit (137 C Cherry Lane) and a 3-bedroom unit (136 A Cherry Lane).

The previous DDRE survey listed the following materials as ACM:

- Flexible duct connector located in the mechanical room

Our survey confirmed the following additional materials to be ACM:

- Transite panel (mechanical room)
- Linoleum floor sheeting (kitchen)

- Wooden parquet floor tile mastic
- Vinyl asbestos floor tile\*

\*The previous survey report did not identify any vinyl asbestos floor tile (VAT) in these areas; however, our survey revealed that 9" x 9" VAT is present beneath vinyl floor sheeting. The VAT was not sampled since this type of tile typically contains asbestos. This condition is assumed to exist in other buildings of this type.

Roofs on these buildings were of EPDM construction and considered non-suspect for asbestos. Galson did not investigate the presence of original roof materials beneath the EPDM. If renovation work will disturb the roofing, this should be investigated since older roofing materials often contain asbestos.

#### ~~ACM Survey For Building 30~~

The previous DDRE survey listed the following materials as ACM:

- Piping insulation including mud fittings
- Vinyl floor sheeting (bathroom and door entrance)\*

Our survey confirmed no additional ACM within the building.

\*We found that the floor coverings in the bathrooms were new. Since these areas are not in the scope we did not investigate if the old floor coverings were present beneath. No vinyl floor sheeting was found at the door entrance. Additionally, the previous survey report did not identify the 12" x 12" vinyl floor tiles present in the heater room of the basement. This material was not sampled as it was not likely to be disturbed during proposed renovation work.

ACM piping insulation could be seen from the basement rising up through the first story walls to feed radiators above. We are assuming that all pipe risers are insulated in this building. Demolition of wall chases and removal of the pipe riser insulation will be necessary as part of the asbestos abatement work.

Roofing materials and the hardwood flooring underlayments were not anticipated to be disturbed during the renovation project and therefore were not sampled at this building. If renovation work will disturb these materials, bulk samples should be collected and analyzed since these materials often contain asbestos.

#### *ACM Survey For Buildings 31 - 37*

Galson's survey for this reporting group was conducted in building 32A.

The previous DDRE survey listed the following materials as ACM:

- Piping insulation including mud fittings\*
- Vinyl floor sheeting (1st & 2nd floor bathrooms)
- Mud flue cement at chimney connection

Our survey confirmed no additional ACM within the building.

\*The previous survey report identified ACM piping insulation to be present; however, our survey revealed that it was not. This housing unit was not on the list indicating any ACM removal. Other similar units should be investigated for the presence of ACM piping.

Roofing materials were not anticipated to be disturbed during the renovation project and therefore were not sampled at this building. If renovation work will disturb these materials, bulk samples should be collected and analyzed since roofing materials often contain asbestos.

#### *ACM Survey For Buildings 40 And 41*

Galson's survey for this reporting group was conducted in building 40.

The previous DDRE survey listed the following materials as ACM:

- Piping insulation including mud fittings
- Vinyl floor sheeting (2nd floor bathrooms, porch entrances)\*
- VAT (back porch)
- Tar paper vapor barrier present behind exterior wall plaster
- Mud flue cement at chimney connection

Our survey confirmed no additional ACM within the building.

\*The vinyl floor sheeting on the porch entrances had been removed; however, it is present in the second floor bathrooms.

The tar paper vapor barrier present behind the exterior plaster walls was visible only in one location. The extent of this material is unknown and needs to be further investigated. For purposes of this report we are assuming it is present behind all exterior walls in this building.

ACM piping insulation could be seen from the basement rising up through the first story walls to feed radiators above. We are assuming that all pipe risers are insulated in this building. Demolition of wall chases and removal of the pipe riser insulation will be necessary as part of the asbestos abatement work.

Roofing materials were not anticipated to be disturbed during the renovation project and therefore were not sampled at this building. If renovation work will disturb these materials in this unit, bulk samples should be collected and analyzed since these materials often contain asbestos.

#### *ACM Survey For Buildings 164-171*

Galson's survey for these buildings was conducted in building 164.

The previous DDRE survey listed the following materials as ACM:

- Vinyl asbestos floor tiles (9" x 9" and 12" x 12" located in numerous areas)

Our survey confirmed the following additional materials to be ACM:

- Ceiling sheetrock/joint compound
- Wall sheetrock/joint compound
- Vinyl asbestos floor tile (newer 12" x 12" in bathroom #1)

Asbestos abatement of the wall and ceiling materials will entail complete isolation of the unit and demolition of all wall and ceiling materials, lathe, etc.

Roofing materials and the hardwood flooring underlayments were not anticipated to be disturbed during the renovation project and therefore were not sampled at this building. If renovation work will disturb these materials in this unit, bulk samples should be collected and analyzed since these materials often contain asbestos.

~~ACM Survey For Buildings 187-197~~

Galson's survey for this reporting group was conducted in building 191B.

The previous DDRE survey listed the following materials as ACM:

- Piping insulation (fittings are assumed to also be ACM)
- Flexible duct connector located in the mechanical room
- Vinyl asbestos floor tile
- Linoleum floor covering

Our survey confirmed no additional ACM within the building.

Piping insulation is present above the ceiling in this building. A wall chase behind the tub in a similar unit was opened and the piping was not insulated. We assume these conditions to be typical in other units of this reporting group. Demolition of the ceilings will be necessary to access and remove the pipe insulation.

Roofing materials were not anticipated to be disturbed during the renovation project and therefore were not sampled at this building. If renovation work will disturb these materials, bulk samples should be collected and analyzed since these materials often contain asbestos.

~~ACM Survey For Building 76~~

The previous DDRE survey listed the following materials as ACM:

- Piping insulation and mud fittings (reportedly removed in 1988)\*
- Vinyl floor tiles of various colors\*

Our survey confirmed the following additional materials to be ACM:

- Ceiling plaster
- Wall plaster

Mr. William Jones  
Burkavage Design Associates  
November 8, 1996  
Page 10

- Transite siding
- Garage - rolled roofing

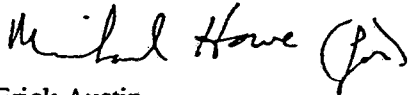
Asbestos abatement of the wall and ceiling materials will entail complete isolation of the unit and demolition of all wall and ceiling materials, lath, etc.

\*All other ACM previously identified in this house has been removed. Piping insulation had been replaced with fiberglass and VAT was replaced with newer vinyl coverings. No evidence of old tiles beneath new flooring.

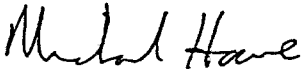
Once we receive comments on this report we will start work on the abatement specifications and drawings. Please call me at 315-432-0506 with any questions.

Sincerely,

Galson Consulting



Erick Austin  
Industrial Hygienist



Michael Howe  
Project Manager

# **Appendix A**

## **Data Evaluation**





October 18, 1996

Mr. William Jones  
Burkavage Design Associates  
Abington Executive Park  
Clark Summit, PA 18411

Re: Defense Distribution Region East Depot  
Asbestos and Lead-Based Paint Consulting Services  
Data Evaluation  
Galson Project No. 964642

Dear Mr. Jones:

Galson Consulting has reviewed the asbestos and lead-based paint (LBP) data provided by the Defense Distribution Region East Depot. We have determined that additional asbestos and LBP testing will be necessary in at least one representative building type within each renovation phase. Our conclusions are summarized as follows:

#### Asbestos Survey Data Evaluation

- Phase I survey data lacks results on surfacing materials (walls and ceilings) and TSI.
- Phase II information is rather limited. Test results for only one material is provided. Floor coverings, thermal system insulation (TSI), surfacing materials (walls and ceilings), etc., are not included.
- Phase III information is the most thorough, however, there is no evidence of testing of surfacing materials (sheetrock and/or plaster) walls and ceilings.

It seems apparent that at least one representative building type within each renovation phase shall be physically inspected to ensure all suspect ACM to be impacted has been sampled. It is evident that at least the surfacing materials (walls and ceilings) will require sampling and analysis in each building type. We recommend a second similar building of each type (if applicable) shall also be visually inspected to insure common building materials were utilized throughout construction phases.

#### Lead-Based Paint Survey Data Evaluation

- Actual sampling results are not provided. Listed LBP components may be assumed to be lead containing.
- No information provided regarding walls, ceilings, or exterior surfaces.

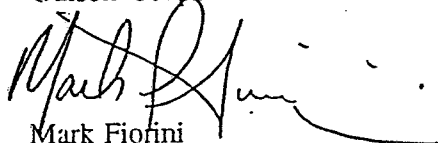
Mr. William Jones  
October 18, 1996  
Page 2

Once again the same approach should be taken in reviewing additional units. One building of each type in each renovation phase shall be inspected. Additional LBP testing shall be performed to confirm listed LBP components are truly lead-containing and were not assumed to be lead-based. Walls, ceiling, and exterior surfaces (where being impacted) shall also be tested since no information was provided. We recommend an additional building, similar in type, shall be visually inspected to ensure similarities in painted components.

Based on the survey data available and the subsequent amount of additional surveying effort required, the anticipated design completion may be impacted. Please call Mike Howe at extension 192 to discuss any impacts on our schedule.

Sincerely,

Galson Corporation

A handwritten signature in dark ink, appearing to read 'Mark Fiorini', with a long horizontal flourish extending to the right.

Mark Fiorini  
Project Manager

MF/lar

cc: Mike Howe

# **Appendix B**

## **LBP Survey Results**



# LEAD-BASED PAINT FSDS

BUILDING NO.: 134 G Cherry Lane		PROJECT NO.: 964642/EXPS/ATL	DATE: 10/22/96
BUILDING ADDRESS:		XRF MAKE & SERIAL NO.:	INSPECTED BY: MLH

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
29	Kitchen	1st	Wall	Tan	Sheetrock	0.0	
30	Kitchen	1st	Ceiling	White	Sheetrock	0.2	
31	Kitchen	1st	Window Trim	Tan	Wood	0.4	
32	Kitchen	1st	Baseboard	Tan	Wood	1.5	
33	Kitchen	1st	Door	Tan	Wood	0.0	
34	Living Room	1st	Wall	Tan	Sheetrock	0.3	
35	Living Room	1st	Ceiling	Tan	Sheetrock	0.0	
36	Living Room	1st	Patio Door Trim	Tan	Wood	0.1	
37	Living Room	1st	Door	Tan	Wood	0.0	
38	Living Room	1st	Shelves	Tan	Wood	0.0	
39	Living Room	1st	Front Door	Tan	Wood	0.7	
40	Living Room	1st	Door Trim	Tan	Wood	3.1	Jamb on Front Door
41	Living Room	1st	Stair Rail Stringer/Riser	Tan	Wood	0.7	Stair Treads Not Painted
42	Bathroom	2nd	Wall	Tan	Sheetrock	0.0	
43	Bathroom	2nd	Ceiling	Tan	Sheetrock	0.0	
44	Bathroom	2nd	Window Frame	Tan	Wood	0.9	Vinyl Baseboards
45	Bathroom	2nd	Door	Tan	Wood	0.6	
46	Bedroom 1	2nd	Wall	Tan	Sheetrock	0.0	
47	Bedroom 1	2nd	Ceiling	Tan	Sheetrock	0.3	
48	Bedroom 1	2nd	Door	Tan	Wood	0.5	
49	Bedroom 1	2nd	Baseboard	Tan	Wood	0.6	
50	Bedroom 2	2nd	Wall	Tan	Sheetrock	0.3	
51	Bedroom 2	2nd	Ceiling	Tan	Sheetrock	0.0	

# LEAD-BASED PAINT FSDS

BUILDING NO.: 134 G Cherry Lane	PROJECT NO.: 964642/EXPS/ATL	DATE: 10/22/96
BUILDING ADDRESS:	XRF MAKE & SERIAL NO.:	INSPECTED BY: MLH

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
52	Bedroom 2	2nd	Door	Tan	Wood	0.0	Closet
53	Bedroom 2	2nd	Window Frame	Tan	Wood	0.2	
54	Bedroom 3	2nd	Wall	Tan	Sheetrock	0.4	
55	Bedroom 3	2nd	Ceiling	Tan	Sheetrock	0.0	
56	Bedroom 3	2nd	Door	Tan	Wood	0.9	
57	Bedroom 3	2nd	Door Frame	Tan	Metal	0.7	
58	Furnace Room	1st	Wall	Tan	Sheetrock	0.0	Same Paint on Duct
59	Exterior	Ground	Posts	White	Metal	1.4	Support Posts on Front Porch
60	Exterior	Ground	Door/Frame	White	Wood	3.3	Door Frame for Storage - Behind Garbage Cans
61	Exterior	Ground	Storage Building Door	White	Wood	0.0	Storage Room in Rear of unit
62	Exterior	Ground	Privacy Fence	White	Wood	0.3	Behind Unit

# LEAD-BASED PAINT FSDS

BUILDING NO.: 135-D Cherry Lane	PROJECT NO.: 964642/EXPS/ATL	DATE: 10/22/96
BUILDING ADDRESS:	XRF MAKE & SERIAL NO.:	INSPECTED BY: MLH

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
63	Kitchen	1st	Wall	White	Sheetrock	0.0	
64	Kitchen	1st	Ceiling	White	Sheetrock	0.0	
65	Kitchen	1st	Door	White	Wood	0.1	
66	Kitchen	1st	Baseboard	White	Wood	1.5	
67	Kitchen	1st	Window Frame	White	Wood	0.6	
68	Kitchen	1st	Door Frame	White	Wood	0.0	
69	Living Room	1st	Wall	White	Sheetrock	0.0	
70	Living Room	1st	Ceiling	White	Sheetrock	0.1	
71	Living Room	1st	Door	White	Wood	0.1	
72	Living Room	1st	Baseboard	White	Wood	0.9	
73	Living Room	1st	Door Frame	White	Wood	0.3	Patio Door
74	Living Room	1st	Door Frame	White	Metal	0.0	Closet Door
75	Hall Stairs	1st	Stringer	White	Wood	0.5	Treads Not Painted
76	Bathroom	2nd	Wall	White	Sheetrock	0.5	Test
77	Bathroom	2nd	Ceiling	White	Sheetrock	0.3	
78	Bathroom	2nd	Window Frame	White	Wood	0.8	
79	Bathroom	2nd	Door	White	Wood	0.0	
80	Bedroom 1	2nd	Wall	White	Sheetrock	0.0	
81	Bedroom 1	2nd	Ceiling	White	Sheetrock	0.0	
82	Bedroom 1	2nd	Window Frame	White	Wood	1.0	
83	Bedroom 1	2nd	Door	White	Wood	0.3	
84	Bedroom 1	2nd	Door Frame	White	Metal	0.0	
85	Bedroom 1	2nd	Baseboard	White	Wood	1.1	

LEAD-BASED PAINT FSDS

BUILDING NO.: 135-D Cherry Lane	PROJECT NO.: 964642/EXPSI/ATL	DATE: 10/22/96
BUILDING ADDRESS:	XRF MAKE & SERIAL NO.:	INSPECTED BY: MLH

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm <sup>2</sup> )	COMMENTS
86	Bedroom 2	2nd	Wall	White	Sheetrock	0.0	
87	Bedroom 2	2nd	Ceiling	White	Sheetrock	0.0	
89	Bedroom 2	2nd	Window Frame	White	Wood	0.8	
90	Bedroom 2	2nd	Door Frame	White	Metal	0.3	
91	Bedroom 2	2nd	Door	White	Wood	0.0	
92	Exterior	Ground	Post	White	Metal	1.6	Front Porch Support Post
93	Exterior	Ground	Door	White	Wood	2.9	Storage Behind Garbage Cans
94	Exterior	Ground	Door	White	Wood	0.0	Rear Storage Door
95	Exterior	Ground	Privacy Fence	White	Wood	0.0	Behind Unit
96	Hallway	1st	Door Jamb	White	Wood	1.1	Front Door
97	Hallway	1st	Door	White	Wood	2.2	

# LEAD-BASED PAINT FSDS

BUILDING NO.: 106-A Cherry Lane  
 PROJECT NO.: 964642/EXPS/ATL  
 DATE: 10/23/96  
 BUILDING ADDRESS:  
 XRF MAKE & SERIAL NO.:  
 INSPECTED BY: MLH

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
98	QC Sample					1.6	1.63 Standard
99	Kitchen	1st	Wall	White	Sheetrock	0.0	
100	Kitchen	1st	Ceiling	White	Sheetrock	0.0	
101	Kitchen	1st	Window Frame	White	Wood	0.5	
102	Kitchen	1st	Door Frame	White	Metal	2.0	
103	Kitchen	1st	Door	White	Wood	0.1	
104	Kitchen	1st	Baseboard	White	Wood	0.5	
105	Living Room	1st	Wall	White	Sheetrock	0.0	
106	Living Room	1st	Ceiling	White	Sheetrock	0.1	
107	Living Room	1st	Patio Door	White	Wood	0.4	
108	Living Room	1st	Window Frame	White	Wood	0.4	
109	Living Room	1st	Door	White	Wood	0.1	
110	Living Room	1st	Door Frame	White	Metal	1.5	
111	Living Room	1st	Baseboard	White	Wood	0.5	
112	Living Room	1st	Stair Stringer	White	Wood	0.4	Stringer Painted. No Paint on Railings/Risers Treads
113	Bathroom	2nd	Wall	White	Sheetrock	0.0	
114	Bathroom	2nd	Ceiling	White	Sheetrock	0.0	
115	Bedroom 1	2nd	Wall	White	Sheetrock	0.1	
116	Bedroom 1	2nd	Ceiling	White	Sheetrock	0.0	
117	Bedroom 1	2nd	Window Frame	White	Wood	0.1	
118	Bedroom 1	2nd	Door Frame	White	Metal	1.3	
119	Bedroom 1	2nd	Door	White	Wood	0.2	
120	Bedroom 1	2nd	Baseboard	White	Wood	0.4	

# LEAD-BASED PAINT FSIDS

BUILDING NO.: 136-A Cherry Lane	PROJECT NO.: 964642/EXPS/ATL	DATE: 10/23/96
BUILDING ADDRESS:	XRF MAKE & SERIAL NO.:	INSPECTED BY: MLH

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
121	Bedroom 2	2nd	Wall	White	Sheetrock	0.0	
122	Bedroom 2	2nd	Ceiling	White	Sheetrock	0.0	
123	Bedroom 2	2nd	Window Frame	White	Wood	0.4	
124	Bedroom 2	2nd	Door Frame	White	Metal	0.7	
125	Bedroom 2	2nd	Door	White	Wood	0.0	
126	Bedroom 2	2nd	Baseboard	White	Wood	0.2	
127	Bedroom 3	2nd	Wall	White	Sheetrock	0.0	
128	Bedroom 3	2nd	Ceiling	White	Sheetrock	0.0	
129	Bedroom 3	2nd	Window Frame	White	Wood	0.4	
130	Bedroom 3	2nd	Door	White	Wood	0.0	
131	Bedroom 3	2nd	Baseboard	White	Wood	0.3	
132	Exterior	Ground	Angled Support For Front Porch Roof	White	Metal	3.5	Rel Vent Pipe As Well - 132 Taken From Unit 132B
133	Exterior	Ground	Door	White	Wood	0.0	Back Storage Room - Rel AC Wood Cover to This
134	Furnace Room	1st	Duct	Grey	Metal	0.8	

# LEAD-BASED PAINT FSDS

BUILDING NO.: 167 G Cherry Lane PROJECT NO.: 964642/EXPS/ATL DATE: 10/23/96  
 BUILDING ADDRESS: XRF MAKE & SERIAL NO.: INSPECTED BY: MLH

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
135	Kitchen	1st	Wall	White	Sheetrock	0.0	
136	Kitchen	1st	Ceiling	White	Sheetrock	0.0	
137	Kitchen	1st	Door	White	Wood	0.0	
138	Kitchen	1st	Door Frame	White	Metal	2.1	
139	Kitchen	1st	Window Frame	White	Wood	0.3	
140	Kitchen	1st	Baseboard	White	Wood	0.4	
141	Living Room	1st	Wall	White	Sheetrock	0.0	
142	Living Room	1st	Ceiling	White	Sheetrock	0.1	
143	Living Room	1st	Door	White	Wood	0.0	
144	Living Room	1st	Door Frame	White	Metal	1.9	
145	Living Room	1st	Window Frame	White	Wood	0.1	Around AC Unit
146	Living Room	1st	Baseboard	White	Wood	0.8	
147	Living Room	1st	Patio Door	White	Wood	0.0	
148	Furnace Room	1st	Duct	Grey	Metal	0.7	Treat as Trim
149	Stairs	1st	Stringer	White	Wood	0.3	
150	Stairs	2nd	Fan Unit	White	Wood	0.7	
151	Bathroom	2nd	Wall	White	Sheetrock	0.0	
152	Bathroom	2nd	Ceiling	White	Sheetrock	0.0	
153	Bedroom 1	2nd	Wall	White	Sheetrock	0.1	
154	Bedroom 1	2nd	Ceiling	White	Sheetrock	0.3	
155	Bedroom 1	2nd	Door	White	Wood	0.0	
156	Bedroom 1	2nd	Door Frame	White	Metal	Not Req	
157	Bedroom 1	2nd	Window Frame	White	Wood	0.2	

# LEAD-BASED PAINT FSDS

BUILDING NO.: 32A			PROJECT NO.: 964642/EXPS/ATL			DATE: 10/24/96	
BUILDING ADDRESS:			XRF MAKE & SERIAL NO.:			INSPECTED BY: MLH	
SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
247	Laundry/Living Area	Basement	Wall	White	Block	0.1	
248	Laundry/Living Area	Basement	Post	Grey	Metal	2.5	
249	Laundry/Living Area	Basement	Floor	Grey	Concrete	0.0	
250	Laundry/Living Area	Basement	Wall	Grey	Wood	0.0	On Stairs
251	Laundry/Living Area	Basement	Stringer	Grey	Wood	1.2	Stairs
252	Laundry/Living Area	Basement	Wall	White	Sheetrock	0.0	Top of Stairs
253	Kitchen	1st	Wall	White	Sheetrock	0.0	
254	Kitchen	1st	Ceiling	White	Sheetrock	0.1	
255	Kitchen	1st	Door	White	Wood	1.7	
256	Kitchen	1st	Door Frame	White	Wood	1.0	
257	Living/Dining Room	1st	Wall	White	Sheetrock	0.0	
258	Living/Dining Room	1st	Ceiling	White	Sheetrock	0.1	
259	Living/Dining Room	1st					No Doors
260	Living/Dining Room	1st	Door Trim	White	Wood	1.1	
261	Living/Dining Room	1st	Window Sill	White	Wood	0.1	
262	Living/Dining Room	1st	Baseboard	White	Wood	1.2	
263	Living/Dining Room	1st	Fire Place Mantel	White	Wood	0.1	
264	Hall	1st	Door	White	Wood	1.1	
265	Bathroom	1st	Wall	White	Sheetrock	0.2	
266	Bathroom	1st	Ceiling	White	Sheetrock	0.2	
267	Bathroom	1st	Window Sill	White	Wood	0.2	
268	1st Floor Bedroom	1st	Wall	White	Sheetrock	0.1	
269	1st Floor Bedroom	1st	Ceiling	White	Sheetrock	0.1	

# LEAD-BASED PAINT FSIDS

BUILDING NO.: 32A PROJECT NO.: 964642/EXPS/ATL DATE: 10/24/96  
 BUILDING ADDRESS: XRF MAKE & SERIAL NO.: INSPECTED BY: MLH

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
270	1st Floor Bedroom	1st	Window Sill	White	Wood	0.1	
271	Stairs	2nd	Stringer	White	Wood	1.1	
272	Bedroom Top of Stairs Left	2nd	Wall	White	Sheetrock	0.0	
273	Bedroom Top of Stairs Left	2nd	Ceiling	White	Sheetrock	0.0	
274	Bedroom Top of Stairs Left	2nd	Window Sill	White	Wood	0.2	
275	Bedroom Top of Stairs & Straight	2nd	Wall	White	Sheetrock	0.0	
276	Bedroom Top of Stairs & Straight	2nd	Ceiling	White	Sheetrock	0.2	
277	Bedroom Top of Stairs & Straight	2nd	Window Sill	White	Wood	0.0	
278	Bedroom Top of Stairs & Straight	2nd	Baseboard	White	Wood	1.1	
279	Bedroom Top of Stairs & Straight	2nd	Door	White	Wood	0.1	
280	Bedroom Top of Stairs & Straight	2nd	Door Jamb	White	Wood	1.1	No Door Frame
Reference Bathroom to Bedroom							
281	Bedroom End of Hall	2nd	Wall	White	Sheetrock	0.1	
282	Bedroom End of Hall	2nd	Ceiling	White	Sheetrock	0.1	
283	Bedroom End of Hall	2nd	Door	White	Wood	0.2	
284	Bedroom End of Hall	2nd	Door Jamb	White	Wood	1.2	
285	Hall Bath	2nd	Door	White	Wood	0.2	
286	Radiator	2nd	Main Bedroom	White	Metal	1.1	
287	Hall Bath	2nd	Vanity	White	Wood	0.0	
288	Exterior	Ground	Rear Entry Wood Divider	White	Wood	0.1	

# LEAD-BASED PAINT FSDS

BUILDING NO.: 40 A & B	PROJECT NO.: 964642/EXPS/ATL	DATE: 10/23/96
BUILDING ADDRESS:	XRF MAKE & SERIAL NO.:	INSPECTED BY: MLH

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
164	Basement	Basement	Stair	White	Wood	8.5	Includes Small Toilet Room at Bottom of Stairs
165	Basement	Basement	Walls	White	Brick/Concrete	1.5	
166	Basement	Basement	Door	White	Wood	10.6	
167	QC Sample			White		1.6	1.63 Standard
168	Basement	Top of Stairs	Wall	White	Plaster	0.7	
169	Rear Porch	1st	Wall	White	Wood	41.3	Sample Taken on Back Porch of 40 B
169	Rear Porch	1st	Wall	White	Sheetrock	2.8	Sample Taken on Back Porch of 40 A
170	Kitchen	1st	Ceiling	White	Plaster	3.3	
171	Kitchen	1st	Wall	White	Sheetrock	0.7	New Soffit Is Sheetrock - Treat as Lead
172	Kitchen	1st	Window Trim	White	Wood	8.8	
173	Dining Room	1st	Wall	White	Plaster	1.5	
174	Dining Room	1st	Baseboard	White	Wood	5.9	
175	Dining Room	1st	Windows	White	Wood	0.0	
176	Living Room	1st	Fireplace Mantel	White	Wood	5.6	
177	Living Room	1st	Stair Stringer	White	Wood	2.4	
178	Sun Porch	1st	Wall	White	Plaster	0.4	
179	Sun Porch	1st	Window Frame	White	Wood	4.1	
180	Front Porch	1st	Wall	White	Plaster	2.1	
181	Bedroom	2nd	Ceiling	White	Plaster	0.9	
182	Bedroom	2nd	Wall	White	Plaster	1.1	
183	Bedroom	2nd	Window Sill	White	Wood	2.5	
184	Bedroom	2nd	Door Frame	White	Wood	4.5	
185	Bedroom	2nd	Door	White	Wood	6.6	

# LEAD-BASED PAINT FSDS

BUILDING NO.: 40 A & B			PROJECT NO.: 964642/EXPS/ATL		DATE: 10/23/96	
BUILDING ADDRESS:			XRF MAKE & SERIAL NO.:		INSPECTED BY: MLH	
SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)
186	Exterior	Ground	Front Porch	White	Wood	30.1
187	Exterior	Ground	Gutter	White	Metal	0.8

# LEAD-BASED PAINT FSDS

BUILDING NO.: 164	PROJECT NO.: 964642/EXPS/ATL	DATE: 10/25/96
BUILDING ADDRESS:	XRF MAKE & SERIAL NO.:	INSPECTED BY: MLH

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
331	Kitchen	1st	Wall	White	Sheetrock	0.1	
332	Kitchen	1st	Ceiling	White	Sheetrock	0.0	
333	Kitchen	1st	Cabinet	White	Wood	0.1	
334	Kitchen	1st	Window Sill	White	Wood	0.1	
335	Kitchen	1st	Door	White	Wood	0.1	Test
336	Kitchen	1st	Door Frame	White	Metal	0.4	Test
337	Kitchen	1st	Baseboard	White	Wood	1.1	
338	Living/Dining Room	1st	Wall	White	Sheetrock	0.2	
339	Living/Dining Room	1st	Ceiling	White	Sheetrock	0.0	
340	Living/Dining Room	1st	Window Sill	White	Wood	0.1	
341	Living/Dining Room	1st	Door	White	Wood	0.3	
342	Living/Dining Room	1st	Baseboard	White	Wood	0.3	
343	Hall	1st	Wall	White	Sheetrock	0.1	
344	Hall	1st	Ceiling	White	Sheetrock	0.2	
345	Hall	1st	Door	White	Wood	0.0	
346	Hall	1st	Door Frame	White	Metal	0.4	Test
347	Hall	1st	Baseboard	White	Wood	0.3	Test
348	Bath 1 & 2	1st	Wall	White	Sheetrock	0.0	
349	Bath 1 & 2	1st	Ceiling	White	Sheetrock	0.1	
350	Bath 1 & 2	1st	Window Frame	White	Wood	0.2	
351	Bath 1 & 2	1st	Door	White	Wood	0.0	
352	Bath 1 & 2	1st	Door Frame	White	Metal	0.0	
353	Bedroom 1	1st	Wall	White	Sheetrock	0.1	

# LEAD-BASED PAINT FSDS

BUILDING NO.: 164		PROJECT NO.: 964642/EXPS/ATL			DATE: 10/25/96		
BUILDING ADDRESS:		XRF MAKE & SERIAL NO.:			INSPECTED BY: MLH		
SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
354	Bedroom 1	1st	Ceiling	White	Sheetrock	0.0	
355	Bedroom 1	1st	Window Sill	White	Wood	0.0	
356	Bedroom 1	1st	Door	White	Wood	0.2	
357	Bedroom 1	1st	Door Frame	White	Metal	0.3	Test
358	Bedroom 1	1st	Baseboard	White	Wood	1.0	Test
359	Bedroom 2	1st	Wall	White	Sheetrock	0.1	
360	Bedroom 2	1st	Ceiling	White	Sheetrock	0.0	
361	Bedroom 2	1st	Window Sill	White	Wood	0.1	
362	Bedroom 2	1st	Door	White	Wood	0.2	Closet
363	Bedroom 2	1st	Door Frame	White	Metal	0.0	
364	Bedroom 2	1st	Baseboard	White	Wood	0.0	
365	Bedroom 3	1st	Wall	White	Sheetrock	0.2	
366	Bedroom 3	1st	Ceiling	White	Sheetrock	0.0	
367	Bedroom 3	1st	Window Sill	White	Wood	0.2	
368	Bedroom 3	1st	Door	White	Wood	0.1	
369	Bedroom 3	1st	Door Frame	White	Metal	0.4	Test
370	Bedroom 3	1st	Baseboard	White	Wood	0.3	(Surface Difficult to test) Test
371	Back Porch	1st	2" x 4" Stud Framing	Redwood	Wood	0.0	
372	Back Porch	1st	Roof Support	White	Metal	0.5	Surface too rounded to accurately survey with XRF
373	Back Porch	1st	Wood Siding	White	Wood	1.4	
374	Exterior	Ground	Wood Siding Beneath Windows	White	Wood	0.6	
375	Exterior	Ground	T-111 @ Front Door	White	Wood	4.0	Porch Siding
376	Exterior	Ground	Carport Wall	White	Wood	0.0	Test

# LEAD-BASED PAINT FSDS

[illegible]

# LEAD-BASED PAINT FSDS

<del>BUILDING NO.: 101-B</del>	PROJECT NO.: 964642/EXPS/ATL	DATE: 10/22/96
BUILDING ADDRESS:	XRF MAKE & SERIAL NO.:	INSPECTED BY: MLH

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
1	Living Room	1st	Wall	White	Sheetrock	0.0	
2	Living Room	1st	Baseboard	White	Wood	0.9	
3	Living Room	1st	Door Frame	White	Metal	0.6	
4	Living Room	1st	Door	White	Hollow Wood	0.0	
5	Living Room	1st	Ceiling	White	Sheetrock	0.0	
6	Kitchen	1st	Window Frame	White	Wood	0.4	
7	Kitchen	1st	Wall	White	Sheetrock	0.0	
8	Kitchen	1st	Ceiling	White	Sheetrock	0.0	
9	Kitchen	1st	Door	White	Wood	0.0	
10	Kitchen	1st	Baseboard	White	Wood	1.0	
11	Hall	1st	Wall	White	Sheetrock	0.1	
12	Hall	1st	Ceiling	White	Sheetrock	0.0	
13	Hall	1st	Door	White	Wood	0.1	
14	Bathroom 1	1st	Wall	White	Sheetrock	0.0	
15	Bathroom 1	1st	Ceiling	White	Sheetrock	0.3	
16	Bedroom 1	1st	Wall	White	Sheetrock	0.0	
17	Bedroom 1	1st	Ceiling	White	Sheetrock	0.0	
18	Bedroom 1	1st	Door	White	Wood	0.7	
19	Bedroom 2	1st	Wall	White	Sheetrock	0.1	
20	Bedroom 2	1st	Ceiling	White	Sheetrock	0.1	
21	Bedroom 2	1st	Door	White	Wood	0.6	
22	Bedroom 3	1st	Wall	White	Sheetrock	0.2	
23	Bedroom 3	1st	Ceiling	White	Sheetrock	0.0	

# LEAD-BASED PAINT FSDS

BUILDING NO.: 101B	PROJECT NO.: 964642/EXPS/ATL	DATE: 10/22/96
BUILDING ADDRESS:	XRF MAKE & SERIAL NO.:	INSPECTED BY: MLH

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
24	Bedroom 3	1st	Door	White	Wood	0.2	
25	Exterior	Ground	Posts	White	Metal	6.8	Front Porch
26	Exterior	Ground	Door	White	Wood	6.4	Front Porch Storage
27	Exterior	Ground	Concrete Cap	Tan	Concrete	0.0	Cap on Brick Wall - Front Porch
28	Exterior	Ground	Wood Privacy Fence	White	Wood	0.0	Backyard

# LEAD-BASED PAINT FSDS

<del>BUILDING NO.: 76</del>		PROJECT NO.: 964642/EXPS/ATL		DATE: 10/24/96	
BUILDING ADDRESS:		XRF MAKE & SERIAL NO.:		INSPECTED BY: MLH	

SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS
289	Basement	Basement	Wall	White	Block	0.0	
290	Basement	Basement	Floor	Grey	Concrete	0.1	
291	Basement	Basement	Post	Black	Metal	0.0	
292	Basement	Basement	Stair Tread	Grey	Wood	0.0	
293	Basement	Basement	Wall	White	Plaster	2.4	Top of Stairs Including Wood Base
294	Basement	Basement	Bottom of Stairs	White	Wood	1.2	Stairs Leading to 2nd Floor
295	Kitchen	1st	Wall	White	Sheetrock	0.0	No Lead in Area
296	Kitchen	1st	Ceiling	White	Sheetrock	0.0	Recent Renovation. See Drawing
297	Kitchen	1st	Door	White	Wood	0.0	
298	Kitchen	1st	Door Frame	White	Wood	0.0	
299	Kitchen	1st	Window Sill	White	Wood	0.1	
300	Kitchen	1st	Baseboard	White	Wood	0.3	
301	Dining Room	1st	Wall	White	Plaster	22.5	
302	Dining Room	1st	Ceiling	White	Plaster	30.2	
303	Dining Room	1st	Door Jamb	White	Wood	1.2	
304	Dining Room	1st	Window Sill	White	Wood	46.0	
305	Dining Room	1st	Baseboard	White	Wood	69.2	
306	Front Porch	1st	Wall	White	Wood	47.1	Significant Deterioration
307	Front Porch	1st	Floor	White	Wood	5.1	
308	Living Room	1st	Wall	White	Plaster	4.2	
309	Living Room	1st	Radiator	White	Metal	0.0	
310	Stairs	2nd	Handrail	White	Wood	39.7	
311	Hall Bath	2nd	Wall	White	Sheetrock	0.0	New Stuff

# LEAD-BASED PAINT FSDS

BUILDING NO.: 76		PROJECT NO.: 964642/EXPS/ATL		DATE: 10/24/96				
BUILDING ADDRESS:		XRF MAKE & SERIAL NO.:		INSPECTED BY: MLH				
SAMPLE NUMBER	LOCATION	FLOOR LEVEL	COMPONENT	COLOR OF PAINT	SUBSTRATE	XRF RESULT (mg/cm2)	COMMENTS	
312	Bedroom 1	2nd	Wall	White	Plaster	17.4		
313	Bedroom 1	2nd	Ceiling	White	Plaster	0.1		
314	Bedroom 1	2nd	Door	White	Wood	72.4		
315	Bedroom 1	2nd	Door Frame	White	Wood	92.9		
316	Bedroom 1	2nd	Window Sill	White	Wood	19.6		
317	Bedroom 1	2nd	Baseboard	White	Wood	51.0		
318	Hall	2nd	Ceiling	White	Plaster	12.6		
319	Bedroom 2	2nd	Wall	White	Plaster	17.3		Older Wall-Hallway Side & Exterior Facing Road
320	Bedroom 2	2nd	Wall	White	Sheetrock	0.1		Closet Wall & 1 Exterior Wall
Note: Back of Closet Wall is Old Lead Based Paint Wall								
321	Bedroom 2	2nd	Ceiling	White	Sheetrock	1.7		
322	Bedroom 3	2nd	Ceiling	White	Plaster	20.4		
323	Bedroom 3	2nd	Wall	White	Plaster	14.1		Exterior Closet Wall
324	Bedroom 4	2nd	Ceiling	White	Sheetrock	17.0		
325	Bedroom 4	2nd	Wall	White	Sheetrock	0.0		Closet Wall
326	Bedroom 4	2nd	Door	White	Wood	0.2		Closet
327	Exterior	Ground	Transite Siding	White	Transite	9.2		Back of Closet Old Stuff
328	Exterior	Ground	Trim	Grey	Wood	34.8		
329	Garage	Ground	Siding	White	Wood	3.3		
330	Garage	Ground	Trim	Blue	Wood	2.4		

## **Appendix C**

### **Asbestos Bulk Sample Results**



~~Building Number 134C~~

[illegible]

ND = NON DETECTABLE      A = AMOSITE      TR=Trace (<1%)  
NA = NOT ANALYZED      C = CHRYSOTILE

**Galson Project No. 964642**

ND = NON DETECTABLE	A = AMOSITE	TR= Trace (<1%)
NA = NOT ANALYZED	C = CHRYSOTILE	

C = CHRYSOTILE

## Summary of Asbestos Bulk Sample Results

~~Building Number 136A~~

**Galson Project No. 964642**

[illegible]

ND = NON DETECTABLE      A = AMOSITE      TR = Trace (<1%)  
NA = NOT ANALYZED      C = CHRYSOTILE

ND = NON DETECTABLE	A = AMOSITE	TR = Trace (<1%)
NA = NOT ANALYZED	C = CHRYSOTILE	

**Galson Project No. 964642**

ND = NON DETECTABLE      A = AMOSITE      TR = Trace (<1%)  
NA = NOT ANALYZED      C = CHRYSOTILE

**Galson Project No. 964642**

ND = NON DETECTABLE      A = AMOSITE      TR = Trace (<1%)  
NA = NOT ANALYZED      C = CHRYSOTILE

**Galson Project No. 964642**

ND = NON DETECTABLE      A = AMOSITE      TR = Trace (<1%)  
NA = NOT ANALYZED      C = CHRYSOTILE

~~Building Number 191~~

[illegible]

**Galson Project No. 964642**

[illegible]

ND = NON DETECTABLE	A = AMOSITE	TR = Trace (<1%)
NA = NOT ANALYZED	C = CHRYSOTILE	



# LABORATORY ANALYSIS REPORT



Client : Defense Distribution Region East Depot  
 Site : New Cumberland Project No.: 964642 EXPS-ATL  
 Date Sampled : 22-OCT-96 - 25-OCT-96 Account No.: 12989  
 Date Received : 28-OCT-96 Login No. : L33284

## Bulk Asbestos Analysis

Sample ID	Lab ID	Color	%Asb.	Type 1	%Asb.	Type 2	%Asb.	Type 3	%/Type Other Fibers
30-FC-1	1	Off Wt/Gry	ND	NA	ND	NA	ND	NA	TR CE
30-FC-2	2	Off Wt/Gry	ND	NA	ND	NA	ND	NA	TR CE
30-FC-3	3	Off Wt/Gry	ND	NA	ND	NA	ND	NA	TR CE
30-CLPL-1	4	Brown/Wt	ND	NA	ND	NA	ND	NA	TR CE
30-CLPL-2	5	Various	ND	NA	ND	NA	ND	NA	1-5 CE;SY
30-CLPL-3	6	Off Wt/Tan	TR	CH	ND	NA	ND	NA	TR CE
30-WLPL-1	7	Various	ND	NA	ND	NA	ND	NA	TR CE
30-WLPL-2	8	Various	ND	NA	ND	NA	ND	NA	TR CE
30-WLPL-3	9	Various	ND	NA	ND	NA	ND	NA	TR CE;SY
32A-CLSH-1	10	Various	ND	NA	ND	NA	ND	NA	TR CE
32A-CLSH-2	11	Various	ND	NA	ND	NA	ND	NA	TR CE
32A-CLSH-3	12	Various	ND	NA	ND	NA	ND	NA	TR CE
32A-WLSH-1	13	Wt/Off Wt	ND	NA	ND	NA	ND	NA	TR CE
32A-WLSH-2	14	White/Tan	ND	NA	ND	NA	ND	NA	40 CE
32A-WLSH-3	15	Various	ND	NA	ND	NA	ND	NA	40 CE
76-CLPL-1	16	Various	TR	CH	ND	NA	ND	NA	TR CE
76-CLPL-2	17	Various	1-5	CH	ND	NA	ND	NA	1-5 CE;SY
76-CLPL-3	18	**	**	**	**	**	**	**	** **
76-WLPL-1	19	Various	ND	NA	ND	NA	ND	NA	TR CE
76-WLPL-2	20	Various	TR	CH	ND	NA	ND	NA	30 CE

COMMENTS: Off Wt-Off White Gry-Gray Wt-White  
 Various-Sample exhibits three or more colors.  
 \*\*Serial analysis; sample not analyzed.

Analytical Method : Polarized light microscopy/  
 dispersion staining.  
 EPA 40 CFR Ch. 1 (7-1-87 Ed.)  
 Part 763, Subpart F, App. A.

Submitted by : MS/PW/DG  
 Approved by : DLG  
 Date : 05-NOV-96 QC by: *Douglas L. H.*  
 NYSDOH # : 10186

TR- Trace(< 1%)	AC- Actinolite	CR- Crocidolite	NA- Not Applicable
CE- Cellulose	AM- Amosite	TM- Tremolite	NS- Not Specified
FG- Fibrous Glass	AN- Anthophyllite		ND- Not Detected
SY- Synthetic	CH- Chrysotile		> - Greater than

Analytical results relate only to items analyzed. Laboratory accredited under the New York State Environmental Laboratory Approval Program (Lab No. 10186) for bulk asbestos analysis and the National Voluntary Laboratory Accreditation Program. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

# LABORATORY ANALYSIS REPORT



Client : Defense Distribution Region East Depot  
 Site : New Cumberland Project No.: 964642 EXPS-ATL  
 Date Sampled : 22-OCT-96 - 25-OCT-96 Account No.: 12989  
 Date Received : 28-OCT-96 Login No. : L33284

## Bulk Asbestos Analysis

Sample ID	Lab ID	Color	%Asb.	Type 1	%Asb.	Type 2	%Asb.	Type 3	%/Type Other Fibers
76-WLPL-3	21	Various	1-5	CH	ND	NA	ND	NA	5 CE;SY
76-ROOF-1	22	White/Blk	ND	NA	ND	NA	ND	NA	45 CE;SY
76-ROOF-2	23	White/Blk	ND	NA	ND	NA	ND	NA	45 CE;SY
76-ROOF-3	24	White/Blk	ND	NA	ND	NA	ND	NA	45 CE;SY
76-FELT-1	25	Black	ND	NA	ND	NA	ND	NA	65 CE
76-FELT-2	26	Black	ND	NA	ND	NA	ND	NA	65 CE
76-FELT-3	27	Black	ND	NA	ND	NA	ND	NA	65 CE
76-RROOF-1	28	Various	>1	CH	ND	NA	ND	NA	50 CE
76-RROOF-2	29	**	**	**	**	**	**	**	** **
76-RROOF-3	30	**	**	**	**	**	**	**	** **
136A-FLVCS-1	31	Tan	50	CH	ND	NA	ND	NA	35 CE
136A-FLVCS-2	32	**	**	**	**	**	**	**	** **
136A-FLVCS-3	33	**	**	**	**	**	**	**	** **
136A-MAS-1	34	Brown/Blk	>1	CH	ND	NA	ND	NA	TR CE
136A-MAS-2	35	**	**	**	**	**	**	**	** **
136A-MAS-3	36	**	**	**	**	**	**	**	** **
136A-WLSH-1	37	Various	ND	NA	ND	NA	ND	NA	TR CE
136A-WLSH-2	38	Various	ND	NA	ND	NA	ND	NA	TR CE
136A-WLSH-3	39	Various	ND	NA	ND	NA	ND	NA	TR CE
136A-CLSH-1	40	Wt/Off Wt	ND	NA	ND	NA	ND	NA	TR CE

COMMENTS: Blk-Black Wt-White Off Wt-Off White  
 Various-Sample exhibits three or more colors.  
 \*Chrysotile was found in tar.  
 -Chrysotile was found in backing.  
 =Chrysotile was found in mastic.  
 \*\*Serial analysis; sample not analyzed.

Analytical Method : Polarized light microscopy/  
 dispersion staining.  
 EPA 40 CFR Ch. 1 (7-1-87 Ed.)  
 Part 763, Subpart F, App. A.

Submitted by : MS/PW/DG  
 Approved by : DLG

Date : 05-NOV-96 QC by: *[Signature]*

NYSDOH # : 10186

TR- Trace(< 1%)	AC- Actinolite	CR- Crocidolite	NA- Not Applicable
CE- Cellulose	AM- Amosite	TM- Tremolite	NS- Not Specified
FG- Fibrous Glass	AN- Anthophyllite		ND- Not Detected
SY- Synthetic	CH- Chrysotile		> - Greater than

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# LABORATORY ANALYSIS REPORT



Client : Defense Distribution Region East Depot  
 Site : New Cumberland Project No.: 964642 EXPS-ATL  
 Date Sampled : 22-OCT-96 - 25-OCT-96 Account No.: 12989  
 Date Received : 28-OCT-96 Login No. : L33284

## Bulk Asbestos Analysis

Sample ID	Lab ID	Color	%Asb.	Type 1	%Asb.	Type 2	%Asb.	Type 3	%/Type Other Fibers
136A-CLSH-2	41	Various	ND	NA	ND	NA	ND	NA	TR CE
<del>136A-CLSH-3</del>	<del>42</del>	<del>Various</del>	<del>TR</del>	<del>CH</del>	<del>ND</del>	<del>NA</del>	<del>ND</del>	<del>NA</del>	<del>35 CE</del>
40-WLPL-1	43	Various	ND	NA	ND	NA	ND	NA	1-5 CE;SY
40-WLPL-2	44	White/Tan	ND	NA	ND	NA	ND	NA	TR CE;SY
40-WLPL-3	45	Various	ND	NA	ND	NA	ND	NA	1-5 CE;SY
40-LATH-1	46	Various	ND	NA	ND	NA	ND	NA	95 CE
40-LATH-2	47	Various	ND	NA	ND	NA	ND	NA	95 CE
40-LATH-3	48	Various	ND	NA	ND	NA	ND	NA	95 CE
40-CLPL-1	49	Various	ND	NA	ND	NA	ND	NA	1-5 CE;SY
40-CLPL-2	50	Various	ND	NA	ND	NA	ND	NA	1-5 CE;SY
40-CLPL-3	51	Various	ND	NA	ND	NA	ND	NA	1-5 CE;SY
40-WLPL-X-1	52	Various	ND	NA	ND	NA	ND	NA	1-5 CE;SY
40-WLPL-X-2	53	Various	ND	NA	ND	NA	ND	NA	1-5 CE;SY
40-WLPL-X-3	54	Various	ND	NA	ND	NA	ND	NA	1-5 CE;SY
40-TARP-1	55	Brn/Off Wt	ND	NA	ND	NA	ND	NA	80 CE
40-TARP-2	56	Brn/Off Wt	ND	NA	ND	NA	ND	NA	80 CE
40-TARP-3	57	Brn/Off Wt	ND	NA	ND	NA	ND	NA	80 CE
40-SOFF-1	58	Brown/Wt	ND	NA	ND	NA	ND	NA	35 CE
40-SOFF-2	59	Brown/Wt	ND	NA	ND	NA	ND	NA	35 CE
40-SOFF-3	60	Brn/Off Wt	ND	NA	ND	NA	ND	NA	35 CE

COMMENTS: Brn-Brown Off Wt-Off White Wt-White  
 Various-Sample exhibits three or more colors.

Analytical Method : Polarized light microscopy/  
 dispersion staining.  
 EPA 40 CFR Ch. 1 (7-1-87 Ed.)  
 Part 763, Subpart F, App. A.

Submitted by : MS/PW/DG  
 Approved by : DLG  
 Date : 05-NOV-96 QC by: *[Signature]*  
 NYSDOH # : 10186

TR- Trace(< 1%)	AC- Actinolite	CR- Crocidolite	NA- Not Applicable
CE- Cellulose	AM- Amosite	TM- Tremolite	NS- Not Specified
FG- Fibrous Glass	AN- Anthophyllite		ND- Not Detected
SY- Synthetic	CH- Chrysotile		> - Greater than

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# LABORATORY ANALYSIS REPORT



Client : Defense Distribution Region East Depot  
 Site : New Cumberland Project No.: 964642 EXPS-ATL  
 Date Sampled : 22-OCT-96 - 25-OCT-96 Account No.: 12989  
 Date Received : 28-OCT-96 Login No. : L33284

## Bulk Asbestos Analysis

Sample ID	Lab ID	Color	%Asb.	Type 1	%Asb.	Type 2	%Asb.	Type 3	%/Type Other Fibers
164-FLVCT-1	61	Off White	>1	CH	ND	NA	ND	NA	1-5 CE;SY
164-FLVCT-2	62	**	**	**	**	**	**	**	** **
164-FLVCT-3	63	**	**	**	**	**	**	**	** **
164-CLSH-1	64	Various	TR	CH	ND	NA	ND	NA	30 CE
164-CLSH-2	65	Various	1-5	CH	ND	NA	ND	NA	30 CE
164-CLSH-3	66	**	**	**	**	**	**	**	** **
164-WLSH-1	67	Various	ND	NA	ND	NA	ND	NA	40 CE;SY
164-WLSH-2	68	Various	TR	CH	ND	NA	ND	NA	40 CE
164-WLSH-3	69	Off Wt/Tan	1-5	CH	ND	NA	ND	NA	35 CE;SY
191B-CLSH-1	70	Brown/Wt	ND	NA	ND	NA	ND	NA	TR CE;SY
191B-CLSH-2	71	Brn/Off Wt	ND	NA	ND	NA	ND	NA	30 CE
191B-CLSH-3	72	Various	ND	NA	ND	NA	ND	NA	TR CE
191B-WLSH-1	73	Various	ND	NA	ND	NA	ND	NA	10 CE
191B-WLSH-2	74	Brn/Off Wt	ND	NA	ND	NA	ND	NA	30 CE
191B-WLSH-3	75	Various	ND	NA	ND	NA	ND	NA	TR CE
191B-VB-1	76	Brown/Blk	ND	NA	ND	NA	ND	NA	85 CE;FG
191B-VB-2	77	Brown/Blk	ND	NA	ND	NA	ND	NA	65 CE;FG
191B-VB-3	78	Brown/Blk	ND	NA	ND	NA	ND	NA	85 CE;FG
134G-WLSH-1	79	Various	ND	NA	ND	NA	ND	NA	50 CE
134G-WLSH-2	80	Various	1-5	CH	ND	NA	ND	NA	40 CE

COMMENTS: Off Wt-Off White Wt-White Brn-Brown Blk-Black  
 Various-Sample exhibits three or more colors.  
 +Chrysotile was found in tile.  
 \*\*Serial analysis; sample not analyzed.

Analytical Method : Polarized light microscopy/  
 dispersion staining.  
 EPA 40 CFR Ch. 1 (7-1-87 Ed.)  
 Part 763, Subpart F, App. A.

Submitted by : MS/PW/DG  
 Approved by : DLG  
 Date : 05-NOV-96 QC by: *[Signature]*  
 NYSDOH # : 10186

TR- Trace(< 1%)	AC- Actinolite	CR- Crocidolite	NA- Not Applicable
CE- Cellulose	AM- Amosite	TM- Tremolite	NS- Not Specified
FG- Fibrous Glass	AN- Anthophyllite		ND- Not Detected
SY- Synthetic	CH- Chrysotile		> - Greater than

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# LABORATORY ANALYSIS REPORT



Client : Defense Distribution Region East Depot  
 Site : New Cumberland Project No.: 964642 EXPS-ATL  
 Date Sampled : 22-OCT-96 - 25-OCT-96 Account No.: 12989  
 Date Received : 28-OCT-96 Login No. : L33284

## Bulk Asbestos Analysis

Sample ID	Lab ID	Color	%Asb.	Type 1	%Asb.	Type 2	%Asb.	Type 3	%/Type Other Fibers
134G-WLSH-3	81	**	**	**	**	**	**	**	**
134G-CLSH-1	82	Brown/Gray	ND	NA	ND	NA	ND	NA	45 CE
134G-CLSH-2	83	Various	ND	NA	ND	NA	ND	NA	40 CE
134G-CLSH-3	84	Various	TR	CH	ND	NA	ND	NA	30 CE
134G-FC-1	85	White/Gray	30	CH	ND	NA	ND	NA	TR CE
134G-FC-2	86	**	**	**	**	**	**	**	**
134G-FC-3	87	**	**	**	**	**	**	**	**
134G-FLVCS-1	88	Brown/Gray	25	CH	ND	NA	ND	NA	15 CE
134G-FLVCS-2	89	**	**	**	**	**	**	**	**
134G-FLVCS-3	90	**	**	**	**	**	**	**	**
134G-FLVCS-K-1	91	Brn/Off Wt	ND	NA	ND	NA	ND	NA	30 CE;SY
134G-FLVCS-K-2	92	Various	ND	NA	ND	NA	ND	NA	30 CE;SY
134G-FLVCS-K-3	93	Brn/Off Wt	ND	NA	ND	NA	ND	NA	20 CE;SY
135D-FLVCS-1	94	Various	ND	NA	ND	NA	ND	NA	30 CE;SY
135D-FLVCS-2	95	Various	ND	NA	ND	NA	ND	NA	35 CE;SY
135D-FLVCS-3	96	Various	ND	NA	ND	NA	ND	NA	50 CE;SY
135D-FLVCT-1	97	Black/Gray	>1	CH	ND	NA	ND	NA	TR CE
135D-FLVCT-2	98	**	**	**	**	**	**	**	**
135D-FLVCT-3	99	**	**	**	**	**	**	**	**
135D-GASK-1	100	White/Gray	85	CH	ND	NA	ND	NA	ND NA

**COMMENTS:** Brn-Brown Off Wt-Off White  
 Various-Sample exhibits three or more colors.  
 -Chrysotile was found in backing.  
 +Chrysotile was found in tile.  
 \*\*Serial analysis; sample not analyzed.

Analytical Method : Polarized light microscopy/  
 dispersion staining.  
 EPA 40 CFR Ch. 1 (7-1-87 Ed.)  
 Part 763, Subpart F, App. A.

Submitted by : MS/PW/DG

Approved by : DLG

Date : 05-NOV-96

QC by: *[Signature]*  
 NYSDOH # : 10186

TR- Trace(< 1%)

CE- Cellulose

FG- Fibrous Glass

SY- Synthetic

AC- Actinolite

AM- Amosite

AN- Anthophyllite

CH- Chrysotile

CR- Crocidolite

TM- Tremolite

NA- Not Applicable

NS- Not Specified

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## Bulk Asbestos Analysis

Sample ID	Lab ID	Color	%Asb.	Type 1	%Asb.	Type 2	%Asb.	Type 3	%/Type	Other Fibers
135D-GASK-2	101	**	**	**	**	**	**	**	**	**
135D-GASK-3	102	**	**	**	**	**	**	**	**	**
133B-WB-1	103	Brown/Gray	ND	NA	ND	NA	ND	NA	TR	CE;FG;SY
133B-WB-2	104	Various	ND	NA	ND	NA	ND	NA	15	CE;FG
133B-WB-3	105	Various	ND	NA	ND	NA	ND	NA	5	CE;FG
40-TARP-X-1	106	Brown/Blk	>1	CH	ND	NA	ND	NA	70	CE
40-TARP-X-2	107	**	**	**	**	**	**	**	**	**
40-TARP-X-3	108	**	**	**	**	**	**	**	**	**
195A-VB-1	109	Off Wt/Blk	ND	NA	ND	NA	ND	NA	65	CE,SY
195A-VB-2	110	Black	ND	NA	ND	NA	ND	NA	65	CE;FG;SY
195A-VB-3	111	Black	ND	NA	ND	NA	ND	NA	65	CE;FG;SY

**COMMENTS:** Blk-Black Off Wt-Off White  
 Various-Sample exhibits three or more colors.  
 \*Chrysotile was found in tar.  
 \*\*Serial analysis; sample not analyzed.

Analytical Method : Polarized light microscopy/  
 dispersion staining.  
 EPA 40 CFR Ch. 1 (7-1-87 Ed.)  
 Part 763, Subpart F, App. A.

Submitted by : MS/PW/DG

Approved by : DLG

Date : 05-NOV-96 QC by: *[Signature]*

NYSDOH # : 10186

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